

ABSTRACT OF THE DISCLOSURE

Disclosed herein are a brown oxide pretreatment composition for cleaning a copper surface and improving
5 adhesion of a polyimide surface, and a method for improving
adhesion of a polyimide surface by applying the composition
to a brown oxide process. The brown oxide pretreatment
composition for cleaning a copper surface and improving
adhesion of a polyimide surface comprises, 5~15g/L of an
10 amine; 190~210g/L of a hydroxide compound; at least one
additive selected from 3~6g/L of a cleaner adjuvant,
0.1~5g/L of a antifoaming agent and 1~10g/L of a
precipitation inhibitor; and the balance of water. When the
brown oxide pretreatment composition for cleaning a copper
15 surface and improving adhesion of a polyimide surface is
applied to a pretreatment step of a brown oxide process, it
can clean a copper surface and improve adhesion of a
polyimide surface.